

Title (en)

FILTER DEVICE

Title (de)

FILTERVORRICHTUNG

Title (fr)

DISPOSITIF DE FILTRAGE

Publication

EP 2651529 B1 20181003 (DE)

Application

EP 11772898 A 20111019

Priority

- DE 102010054716 A 20101216
- EP 2011005251 W 20111019

Abstract (en)

[origin: WO2012079661A1] The invention relates to a filter device comprising at least one filter housing (1) in which at least one filter element (21) is arranged. Inside the filter housing (1), the filter element separates a clean side (9) from an untreated side (13). The device is characterised in that, on the clean side (9) of the respective filter housing (1) at least one storage unit (3) having at least one movable separating element (47) is connected, which divides the storage unit (3) into two working chambers (49) or pressure chambers (43).

IPC 8 full level

B01D 29/48 (2006.01); **B01D 29/52** (2006.01); **B01D 29/60** (2006.01); **B01D 29/66** (2006.01); **B01D 29/90** (2006.01)

CPC (source: EP US)

B01D 29/48 (2013.01 - EP US); **B01D 29/52** (2013.01 - EP US); **B01D 29/606** (2013.01 - EP US); **B01D 29/665** (2013.01 - EP US);
B01D 29/668 (2013.01 - EP US); **B01D 29/68** (2013.01 - US); **B01D 29/90** (2013.01 - EP US)

Citation (examination)

- DE 20211556 U1 20031120 - HENGST GMBH & CO KG [DE]
- WO 02062447 A1 20020815 - HYDAC FILTERTECHNIK GMBH [DE], et al
- US 3493113 A 19700203 - ROSAEN NILS O

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012079661 A1 20120621; CN 103260719 A 20130821; CN 103260719 B 20150930; DE 102010054716 A1 20120621;
EP 2651529 A1 20131023; EP 2651529 B1 20181003; JP 2013545608 A 20131226; JP 5681296 B2 20150304; US 10029194 B2 20180724;
US 2013292321 A1 20131107

DOCDB simple family (application)

EP 2011005251 W 20111019; CN 201180060028 A 20111019; DE 102010054716 A 20101216; EP 11772898 A 20111019;
JP 2013543545 A 20111019; US 201113261665 A 20111019